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**SLIATE**

**SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION**

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

**Higher National Diploma in Information Technology**

**Second Year, First Semester Examination – 2017**

**HNDIT2302 IT Project Management**

Instructions for Candidates:

Answer only **04 Questions only**

No. of Questions: 05

No. of Pages : 03

Time: Two (02) hours

Q1

- i. Define the term 'Project' and name 3 project attributes. (06 Marks)
- ii. Project management framework includes the project stakeholders, PM knowledge areas, PM tools and techniques. Name four core knowledge areas. (04 Marks)
- iii. Briefly explain the term project Stakeholders. (03 Marks)
- iv. A TeamSoft is a small company, which develop web based applications and sell computer parts. Ali is the hardware technician in sales department and he works under Dilmi, the hardware Engineer in the same section. Suranga is the software manager in Development Section. Mahesh is a software engineer works under Suranga. The TeamSoft has been awarded the contract to develop the Stock Control software for Hill Top hotel in Kandy, and Suranga has been assigned to manage the project. Raj works as the hotel manager at Hill Top Hotel. According to the given case study, prepare a list of stakeholders in the Stock Control software project. (06 Marks)
- v. Flexibility is a special characteristic of an IT Project. Briefly explain other two special characteristics of an IT project (06 Marks)

Q2

- i. Name three processes in project integration management. (03 Marks)
- ii. Name three Project Scope Management Processes. (03 Marks)

- iii. What is the Scope Management Plan? (03 Marks)
- iv. For each row in the following chart, enter the letter of the project you would select if the following information was provided. Give reasons for your selection. (08 Marks)

	Project P	Project Q	Which project would you select?	Reason
NPV	Rs.45,000	Rs.89,000		
Payback period	3 Years	2 Years		

- v. Briefly explain the differences between the Project life cycle and product life cycle (related to IT Projects). Your answer should include: explanation of each life cycle. (08 Marks)

### Q3

- i. Name five Project Scope Management Processes. (05 Marks)

You are working as a project manager of your development company. You and your team going to develop a Point of Sale system. You have drawn up an outline project plan to include the following main tasks.

A	Collecting requirements by using interviews	6 weeks
B	Develop an architectural design & identify components	6 weeks
C	Specify and order new hardware	3 weeks
D	Test and install hardware	9 weeks
E	Develop and reuse software components and test it	15 weeks
F	Install application in client environment and enter data	7 weeks
G	Draw up a training plan	3 weeks
H	Train the users	9 weeks
I	Draw up an acceptance test plan	3 weeks
J	Acceptance Testing	4 weeks
K	Loading data and implement the new system	3 weeks

Dependencies (Finished to start) between the tasks are listed below:

B depend on A      C & E depend on B      D depend on C  
F depend on D & E      G depend on F      H depend on G  
I depend on F      J depend on I      K depend on H & J

- ii. Draw the activity on arrow network diagram. (10 Marks)
- iii. Find the critical path (05 Marks)
- iv. Find Critical Activities (02 Marks)
- v. Find Project duration (02 Marks)
- vi. What is the minimum duration needed to complete the project? (01 Marks)

Q4

- i. "Quality of the IT project can be improved." Do you agree with this statement? (05 Marks)  
Briefly explain your view.
- ii. Briefly explain the Project Cost Management Processes. (04 Marks)
- iii. You work as a member of software development team. Part of your project has 1000 Line of Codes. Find the value for average staff and productivity using basic COCOMO model. (08 Marks)  
(hint:  $E = 2.4 \times (\text{size})^{1.05}$        $TDEV = 2.5 \times (E)^{0.38}$  )
- iv. Briefly explain the followings: (08 Marks)
  - a) Organizational planning
  - b) Resource loading

Q5

- i. Name three Project Procurement Management Processes (03 Marks)
- ii. What do you mean by communications management plan? (03 marks)
- iii. Name four risk identification tools and techniques. (04 Marks)
- iv. Briefly explain the following Quantitative Risk Analysis techniques. (04 Marks)
  - a) Decision Trees
  - b) Expected Monetary Value (EMV)
- v. Briefly explain four skills required for a Project Manager. (08 Marks)